

Title (en)
AUSTENITIC STAINLESS STEEL HAVING EXCELLENT PROCESSABILITY AND SURFACE CHARACTERISTICS, AND MANUFACTURING METHOD THEREFOR

Title (de)
AUSTENITISCHER EDELSTAHL MIT HERVORRAGENDER VERARBEITBARKEIT UND OBERFLÄCHENEIGENSCHAFTEN SOWIE HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
ACIER INOXYDABLE AUSTÉNITIQUE DOTÉ D'UNE EXCELLENTE APTITUDE AU TRAITEMENT ET DE CARACTÉRISTIQUES DE SURFACE EXCELLENTE, ET SON PROCÉDÉ DE FABRICATION

Publication
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Application
EP 17885341 A 20171221

Priority

- KR 20160178365 A 20161223
- KR 20170176063 A 20171220
- KR 2017015227 W 20171221

Abstract (en)
[origin: EP3561127A1] An austenitic stainless steel having excellent processability and surface characteristics and a method of manufacturing the austenitic stainless steel are disclosed. The austenitic stainless steel includes, by weight%, 0.005% to 0.15% of carbon (C), 0.1% to 1.0% of silicon (Si), 0.1% to 2.0% of manganese (Mn), 6.0% to 10.5% of nickel (Ni), 16% to 20% of chromium (Cr), 0.005% to 0.2% of nitrogen (N), the remainder iron (Fe) and other unavoidable impurities, wherein a degree of Ni surface negative segregation defined by the following Formula (1) is in a range of 0.6 to 0.9. C_{Ni-Min}/C_{Ni-Ave} is a minimum concentration of Ni on the surface of the austenitic stainless steel and C_{Ni-Ave} is an average concentration of Ni on the surface of the austenitic stainless steel.

IPC 8 full level
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CPC (source: EP KR US)
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Citation (search report)

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Designated contracting state (EPC)
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